

Name _____

ANSWERS

PERIMETER OF TRAPEZOIDS

Instructions: Calculate the perimeter of trapezoids in different everyday situations.

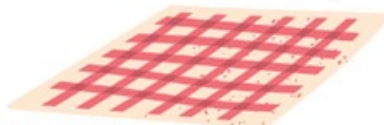
Exercise 1: Picnic Area

A picnic area is designed in the shape of a trapezoid. The shorter side is 14 feet, the longer side is 26 feet, and the left and right sides are 12 feet each.

Question: Calculate the total length of a fence required to surround the picnic area.

Solution:

$$\text{Perimeter} = 14 \text{ ft} + 26 \text{ ft} + 12 \text{ ft} + 12 \text{ ft} = 64 \text{ feet}$$



Exercise 2: Billboard Sign

A trapezoid-shaped billboard has a top edge of 5 meters, a bottom edge of 12 meters, and both sides measuring 4 meters each.

Question: How many meters of border material are needed to go around the billboard?

Solution:

$$\text{Perimeter} = 5 \text{ m} + 12 \text{ m} + 4 \text{ m} + 4 \text{ m} = 25 \text{ meters}$$



Exercise 3: Playground Sandbox

A sandbox at a playground is in the shape of a trapezoid with a top edge of 7 feet, a bottom edge of 13 feet, and two sides measuring 6 feet each.

Question: Find the perimeter of the sandbox to determine how much wood is needed for its border.

Solution:

$$\text{Perimeter} = 7 \text{ ft} + 13 \text{ ft} + 6 \text{ ft} + 6 \text{ ft} = 32 \text{ feet}$$



How Did You Do? 😊 😐 😞